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### Noncontacting IC card supplied with power from an outside source

Y Kato, H Yuvama, T Oilma... - US Patent 4,962,485, 1990 - Google Patents

... 5. The 1C card of claim 4, further comprising: 5 currents supply card of claim 7, wherein said second to the **backup** battery and a second ... 8. The non-contact IC card of claim 7, wherein said second control signal output by said control means is a signal corresponding to a program ...

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# IC card with dual level power supply interface and method for operating the IC card Z Oda... - US Patent 5,490,117, 1996 - Google Patents ... 6, 1996 [54] 1C CARD WITH DUAL LEVEL POWER SUPPLY INTERFACE AND METHOD FOR

OPERATING THE 1C CARD [75] Inventors: Zenzo Oda; Noriaki Sakurada, both of Suwa, Japan [73] Assignee: Seiko Epson Corporation, Tokyo, Japan [21] Appl. ...

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#### IC card and portable terminal

T Takahashi - US Patent 5,406,064, 1995 - Google Patents

... For an 1C card lowered clock frequency is used during the command with a built-in RAM, the backup of the RAM is made to ... becomes impossible, connectable to the portable terminal by supplying to the In order to ensure the normal data write/erase opera- IC card the operating ... Cited by 57 - Related articles - All 4 versions

### Power supply control circuit for use in IC memory card

T Shinohara - US Patent 5,382,839, 1995 - Google Patents

... e, terminal 8 A power supply changing PMOS transistor If ^ thus constructed conventional IC memory card ... In a backup state, the power supply changing a shifting period between 3.3 V and ... an 1C resistor 13 and output through the mternal voltage out- memory card power supply ...

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#### System for authenticating an authorized user of an IC card

A Ugawa... - US Patent 5,146,068, 1992 - Google Patents

... If necessary, the true ID data can be stored in ory (hereinafter, RAM) 24 for a working area of the RAM u with battery **backup** from the ... 3 (82)> and the cpu 2° unit which includes the 1C **card** slot 18 for accepting the always accesses those files using a "FILE DIREC- **IC card** 2, a ...

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## Promotion system including an ic-card memory for obtaining and tracking a plurality of transactions

S Gottlich... - US Patent 6,024,288, 2000 - Google Patents ... 15, 2000 [54] PROMOTION SYSTEM INCLUDING AN IC- CARD MEMORY FOR OBTAINING AND TRACKING A PLURALITY OF TRANSACTIONS [75] Inventors: Stephen Gottlieb, Overland Park, Kans.; Jacob B. Horwitz, Palmdale, Calif. ...

Cited by 45 - Related articles - At 2 versions

# Plural-coil non-contact **IC card** having pot cores and shielding walls M Mizuta - US Patent 5,198,647, 1993 - Google Patents ... 1C memory **card** which data line 11 serves to deliver received data from the performs parallel

transfer of 8-bit (N=8) data will be receiving coil 3a to the control 1C 4. A transmitted data described below. 15 ime i2 serves to deliver transmitted data from the con- IC memory cards ...

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# Non-contact IC card with antenna switching circuit

A Yamaguchi - US Patent 5,801,372, 1998 - Google Patents

... Another feature of this invention is that a non-contact type The present invention has been developed in order to meet go ic card, using an electromagnetic wave as a communication the above requirements, and it is particularly an object of medium and not containing a battery ... Cited by 34 - Related articles - Alt 2 versions

#### Non-contact IC card including antenna circuit with adjustable resonant frequency

A Yamaguchi - US Patent 5,698,838, 1997 - Google Patents

... Another feature of this invention is that a non-contact type The present invention has been developed in order to meet **ic card**, using an electromagnetic wave as a communication the above requirements, and it is particularly an object of medium and not containing a battery ...

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# Non-contact IC card with phase variation detector A Yamaguchi - US Patent 5,874,725, 1999 - Google Patents

. ", , , j 1 tu oscillation of the antenna resonance circuit. That is, energy IC card employed system usually comprises the **card** 1, the . , , , . . .. ic uu \*uj jt $\pounds$ ct-i medium and not containing a battery therein, includes an stopped, for which reason the **card** needs to effectively . ? ...

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